

HPD UNIQUE IDENTIFIER: 21153

CLASSIFICATION: 09 65 66

PRODUCT DESCRIPTION: Confetti flooring is manufactured in multiple colors and with random color percentages using both post-consumer recycled tires and post-industrial recycled trim from US Rubber Recycling's manufacturing stream. Each production batch used to produce Confetti contains a potpourri of U.S. Rubber's standard 19 colors. No two production runs are identical and cannot be matched to past Confetti flooring projects.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 5 of 5 Materials

Explanation(s) provided for Residuals/Impurities?
 Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances except SC substances characterized according to SC guidance.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

POST CONSUMER RECYCLED CRUMB RUBBER [CARBON BLACK LT-1 | CAN STYRENE-BUTADIENE COPOLYMERS LT-UNK EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT LT-1 | PBT | CAN | MUL OCTADECANOIC ACID, ZINC SALT LT-P1 SULFUR, ELEMENTAL LT-UNK | SKI 1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL- LT-P1 | MUL | SKI 2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL- LT-P1 | AQU | SKI | MUL | REP POLYBUTADIENE LT-UNK TALC BM-1 | CAN BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] SURVIVOR SPORTFLOOR POST INDUSTRIAL RECYCLED CONTENT [CARBON BLACK LT-1 | CAN STYRENE-BUTADIENE COPOLYMERS LT-UNK EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT LT-1 | PBT | CAN | MUL OCTADECANOIC ACID, ZINC SALT LT-P1 SULFUR, ELEMENTAL LT-UNK | SKI 1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL- LT-P1 | MUL | SKI BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]- LT-UNK | MUL | SKI | EYE | RES | CAN 4,4'-METHYLENEDIIPHENYL DIISOCYANATE LT-UNK | RES | MUL | SKI | EYE | CAN 2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL- LT-P1 | AQU | SKI | MUL | REP POLYBUTADIENE LT-UNK TALC BM-1 | CAN BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO- LT-UNK | MUL | SKI | EYE | RES | CAN

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... Yes

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This HPD is based on industry-standard data for the chemical composition of the post-consumer recycled content crumb rubber from tires and for determining the possible impurities and residuals of individual substances with the product. Pharoah's database of common materials was used to determine the material content of the post-consumer recycled content of the crumb rubber from used tires. Since the true chemical content is unknown this data was used as the basis for the raw material. For the residual and impurities, the toxnet database was used. This database is based on peer-reviewed journal articles and scientific studies. It details known impurities in materials studied. The actual materials used by U.S. Rubber have not been evaluated or tested therefore the impurities listed may or may not be in the actual finished product.

This HPD contains one biobased substance without a CAS# in the post-consumer recycled rubber from tires.

"SpecialConditionApplied:Biological Material"

SC: Bio

Category=Tree-based materials. Latex is harvested from the rubber tree.

LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] **QUIETSOUND UNDERLAYMENT POST INDUSTRIAL RECYCLED CONTENT [CARBON BLACK** LT-1 | CAN **STYRENE-BUTADIENE COPOLYMERS** LT-UNK **EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT** LT-1 | PBT | CAN | MUL **OCTADECANOIC ACID, ZINC SALT** LT-P1 **SULFUR, ELEMENTAL** LT-UNK | SKI **1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-** LT-P1 | MUL | SKI **BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-** LT-UNK | MUL | SKI | EYE | RES | CAN **4,4'-METHYLENEDIPHENYL DIISOCYANATE** LT-UNK | RES | MUL | SKI | EYE | CAN **2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-** LT-P1 | AQU | SKI | MUL | REP **POLYBUTADIENE** LT-UNK **TALC** BM-1 | CAN **BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE** LT-UNK **BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-** LT-UNK | MUL | SKI | EYE | RES | CAN **LEAD** LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN] **BINDER T-424 [BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-** LT-UNK | MUL | SKI | EYE | RES | CAN **4,4'-METHYLENEDIPHENYL DIISOCYANATE** LT-UNK | RES | MUL | SKI | EYE | CAN **BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-** LT-UNK | MUL | SKI | EYE | RES | CAN] **SC:BIO:NATURALRUBBER [SC:NATURAL RUBBER** Not Screened]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-06-20

PUBLISHED DATE: 2020-07-29

EXPIRY DATE: 2022-06-20



Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

POST CONSUMER RECYCLED CRUMB RUBBER

#: 47.4910 - 47.4910

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: 27.0010 - 39.9990

GS: LT-1

RC: PostC

NANO: Yes

SUBSTANCE ROLE: Pigment

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|-----------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: 9003-55-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: 1.0000 - 50.0010

GS: LT-UNK

RC: PostC

NANO: No

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: 64742-04-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **1.0000 - 20.0000** GS: **LT-1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|----------------------------|--|
| PBT | EU - ESIS PBT | Under PBT evaluation |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| CANCER | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **1.0000 - 5.9990** GS: **LT-P1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Diluent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.8990 - 4.7000** GS: **LT-UNK** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|-------------------------|-------------------------------|
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.8000 - 2.0000** GS: **LT-P1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Antioxidant**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.2000 - 2.0000** GS: **LT-P1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| ACUTE AQUATIC | EU - GHS (H-Statements) | H400 - Very toxic to aquatic life |
| CHRON AQUATIC | EU - GHS (H-Statements) | H410 - Very toxic to aquatic life with long lasting effects |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1B |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.0990 - 39.9990** GS: **LT-UNK** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|-------------|------------------------|----------|

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC ID: 14807-96-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.0990 - 5.0010** GS: **BM-1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Filler**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| CANCER | IARC | Group 2b - Possibly carcinogenic to humans |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE ID: 25038-36-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.0000 - 1.0000** GS: **LT-UNK** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

LEAD ID: 7439-92-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **Impurity/Residual** GS: **LT-1** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|---------------|----------------------------|---|
| DEVELOPMENTAL | G&L - Neurotoxic Chemicals | Developmental Neurotoxicant |
| CANCER | US EPA - IRIS Carcinogens | (1986) Group B2 - Probable human Carcinogen |
| CANCER | IARC | Group 2a - Agent is probably Carcinogenic to humans |
| CANCER | IARC | Group 2b - Possibly carcinogenic to humans |

| | | |
|---------------|--|---|
| CANCER | CA EPA - Prop 65 | Carcinogen |
| DEVELOPMENTAL | CA EPA - Prop 65 | Developmental toxicity |
| PBT | US EPA - Priority PBTs (NWMP) | Priority PBT |
| PBT | WA DoE - PBT | PBT |
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Female |
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Male |
| CANCER | US NIH - Report on Carcinogens | Reasonably Anticipated to be Human Carcinogen |
| PBT | US EPA - Toxics Release Inventory PBTs | PBT |
| REPRODUCTIVE | EU - SVHC Authorisation List | Toxic to reproduction - Candidate list |
| PBT | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action |
| PBT | OR DEQ - Priority Persistent Pollutants | Priority Persistent Pollutant - Tier 1 |
| DEVELOPMENTAL | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |
| REPRODUCTIVE | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Reproductive Toxicity |
| REPRODUCTIVE | EU - GHS (H-Statements) | H360FD - May damage fertility. May damage the unborn child |
| DEVELOPMENTAL | EU - GHS (H-Statements) | H362 - May cause harm to breast-fed children |
| REPRODUCTIVE | EU - REACH Annex XVII CMRs | Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CANCER | MAK | Carcinogen Group 2 - Considered to be carcinogenic for man |
| CANCER | Korea - GHS | Carcinogenicity - Category 1 [H350 - May cause cancer] |
| REPRODUCTIVE | Korea - GHS | Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child] |
| REPRODUCTIVE | New Zealand - GHS | 6.8A - Known or presumed human reproductive or developmental toxicants |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1A |
| GENE MUTATION | MAK | Germ Cell Mutagen 3a |
| REPRODUCTIVE | EU - Annex VI CMRs | Reproductive Toxicity - Category 1A |
| DEVELOPMENTAL | Australia - GHS | H360Df - May damage the unborn child. Suspected of damaging fertility |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES
CONSIDERED: **Yes**

MATERIAL TYPE: **Polymeric
Material**

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: **1333-86-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

%: **27.0000 - 39.9990** GS: **LT-1** RC: **PreC** NANO: **Yes** SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|-----------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: **9003-55-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

%: **1.0000 - 49.9990** GS: **LT-UNK** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: **64742-04-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

%: **1.0000 - 20.0010** GS: **LT-1** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|----------------------------|--|
| PBT | EU - ESIS PBT | Under PBT evaluation |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| CANCER | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **1.0000 - 6.0010**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Diluent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.9000 - 4.7010**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|-------------------------|-------------------------------|
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

%: 0.8000 - 2.0000

GS: LT-P1

RC: PreC

NANO: No

SUBSTANCE ROLE: Antioxidant

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-

ID: 5873-54-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 0.5500 - 1.3740

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 0.5500 - 1.1000

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (G) - generally accepted |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| RESPIRATORY | MAK | Sensitizing Substance Sah - Danger of airway & skin sensitization |

SUBSTANCE NOTES:

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.2000 - 2.0000**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| ACUTE AQUATIC | EU - GHS (H-Statements) | H400 - Very toxic to aquatic life |
| CHRON AQUATIC | EU - GHS (H-Statements) | H410 - Very toxic to aquatic life with long lasting effects |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1B |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

%: 0.1000 - 39.9990

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC

ID: 14807-96-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 0.1000 - 5.0010

GS: BM-1

RC: PreC

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE

ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 0.0210 - 20.8010

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-

ID: 2536-05-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

%: 0.0000 - 0.1110

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

SUBSTANCE NOTES:

LEAD

ID: 7439-92-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **Impurity/Residual** GS: **LT-1** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|---------------|--|--|
| DEVELOPMENTAL | G&L - Neurotoxic Chemicals | Developmental Neurotoxicant |
| CANCER | US EPA - IRIS Carcinogens | (1986) Group B2 - Probable human Carcinogen |
| CANCER | IARC | Group 2a - Agent is probably Carcinogenic to humans |
| CANCER | IARC | Group 2b - Possibly carcinogenic to humans |
| CANCER | CA EPA - Prop 65 | Carcinogen |
| DEVELOPMENTAL | CA EPA - Prop 65 | Developmental toxicity |
| PBT | US EPA - Priority PBTs (NWMP) | Priority PBT |
| PBT | WA DoE - PBT | PBT |
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Female |
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Male |
| CANCER | US NIH - Report on Carcinogens | Reasonably Anticipated to be Human Carcinogen |
| PBT | US EPA - Toxics Release Inventory PBTs | PBT |
| REPRODUCTIVE | EU - SVHC Authorisation List | Toxic to reproduction - Candidate list |
| PBT | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action |
| PBT | OR DEQ - Priority Persistent Pollutants | Priority Persistent Pollutant - Tier 1 |
| DEVELOPMENTAL | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |

| | | |
|---------------|--|---|
| REPRODUCTIVE | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Reproductive Toxicity |
| REPRODUCTIVE | EU - GHS (H-Statements) | H360FD - May damage fertility. May damage the unborn child |
| DEVELOPMENTAL | EU - GHS (H-Statements) | H362 - May cause harm to breast-fed children |
| REPRODUCTIVE | EU - REACH Annex XVII CMRs | Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CANCER | MAK | Carcinogen Group 2 - Considered to be carcinogenic for man |
| CANCER | Korea - GHS | Carcinogenicity - Category 1 [H350 - May cause cancer] |
| REPRODUCTIVE | Korea - GHS | Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child] |
| REPRODUCTIVE | New Zealand - GHS | 6.8A - Known or presumed human reproductive or developmental toxicants |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1A |
| GENE MUTATION | MAK | Germ Cell Mutagen 3a |
| REPRODUCTIVE | EU - Annex VI CMRs | Reproductive Toxicity - Category 1A |
| DEVELOPMENTAL | Australia - GHS | H360Df - May damage the unborn child. Suspected of damaging fertility |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

QUIETSOUND UNDERLAYMENT POST INDUSTRIAL RECYCLED CONTENT

#: 9.4980 - 9.4980

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES
CONSIDERED: Yes

MATERIAL TYPE: Polymeric
Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were screened using the toxnet database and were considered based on the material's post-consumer recycled status. The two biggest concerns for impurities are lead from the tire coming in contact with the roadway and nanoparticles in carbon black.

OTHER MATERIAL NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: 25.6480 - 37.9870

GS: LT-1

RC: PreC

NANO: Yes

SUBSTANCE ROLE: Pigment

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|-----------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

STYRENE-BUTADIENE COPOLYMERS

ID: 9003-55-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.9480 - 47.4840** GS: **LT-UNK** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT

ID: 64742-04-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-06-20**

#: **0.9480 - 18.9930** GS: **LT-1** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Solvent**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|----------------------------|--|
| PBT | EU - ESIS PBT | Under PBT evaluation |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| CANCER | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-06-20**%: **0.9480 - 5.6960**GS: **LT-P1**RC: **PreC**NANO: **No**SUBSTANCE ROLE: **Diluent**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-06-20**%: **0.8530 - 4.4640**GS: **LT-UNK**RC: **PreC**NANO: **No**SUBSTANCE ROLE: **Accelerator**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

1,4-BENZENEDIAMINE, N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-

ID: 793-24-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-06-20**%: **0.7580 - 1.8950**GS: **LT-P1**RC: **PreC**NANO: **No**SUBSTANCE ROLE: **Antioxidant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1-ISOCYANATO-2-[(4-ISOCYANATOPHENYL)METHYL]-

ID: 5873-54-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-06-20**%: **0.5050 - 1.2530**GS: **LT-UNK**RC: **PreC**NANO: **No**SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.5050 - 1.0000**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (G) - generally accepted |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| RESPIRATORY | MAK | Sensitizing Substance Sah - Danger of airway & skin sensitization |

SUBSTANCE NOTES:

2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-

ID: 95-33-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **0.1900 - 1.8950**

GS: **LT-P1**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Accelerator**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| ACUTE AQUATIC | EU - GHS (H-Statements) | H400 - Very toxic to aquatic life |
| CHRON AQUATIC | EU - GHS (H-Statements) | H410 - Very toxic to aquatic life with long lasting effects |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1B |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

POLYBUTADIENE

ID: 9003-17-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

?: **0.0950 - 37.9870**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

TALC

ID: 14807-96-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

?: **0.0950 - 4.7480**

GS: **BM-1**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Filler**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| CANCER | IARC | Group 2b - Possibly carcinogenic to humans |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BICYCLO[2.2.1]HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE

ID: 25038-36-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: 0.0000 - 0.9480

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-

ID: 2536-05-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: 0.0000 - 0.1050

GS: LT-UNK

RC: PreC

NANO: No

SUBSTANCE ROLE: Polymer species

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESTRICTED LIST

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

RESPIRATORY

EU - GHS (H-Statements)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

RESPIRATORY

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

LEAD

ID: 7439-92-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-06-20

#: Impurity/Residual

GS: LT-1

RC: PreC

NANO: No

SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

DEVELOPMENTAL

G&L - Neurotoxic Chemicals

Developmental Neurotoxicant

CANCER

US EPA - IRIS Carcinogens

(1986) Group B2 - Probable human Carcinogen

CANCER

IARC

Group 2a - Agent is probably Carcinogenic to humans

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

DEVELOPMENTAL

CA EPA - Prop 65

Developmental toxicity

PBT

US EPA - Priority PBTs (NWMP)

Priority PBT

PBT

WA DoE - PBT

PBT

| | | |
|---------------|--|---|
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Female |
| REPRODUCTIVE | CA EPA - Prop 65 | Reproductive Toxicity - Male |
| CANCER | US NIH - Report on Carcinogens | Reasonably Anticipated to be Human Carcinogen |
| PBT | US EPA - Toxics Release Inventory PBTs | PBT |
| REPRODUCTIVE | EU - SVHC Authorisation List | Toxic to reproduction - Candidate list |
| PBT | OSPAR - Priority PBTs & EDs & equivalent concern | PBT - Chemical for Priority Action |
| PBT | OR DEQ - Priority Persistent Pollutants | Priority Persistent Pollutant - Tier 1 |
| DEVELOPMENTAL | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |
| REPRODUCTIVE | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Reproductive Toxicity |
| REPRODUCTIVE | EU - GHS (H-Statements) | H360FD - May damage fertility. May damage the unborn child |
| DEVELOPMENTAL | EU - GHS (H-Statements) | H362 - May cause harm to breast-fed children |
| REPRODUCTIVE | EU - REACH Annex XVII CMRs | Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CANCER | MAK | Carcinogen Group 2 - Considered to be carcinogenic for man |
| CANCER | Korea - GHS | Carcinogenicity - Category 1 [H350 - May cause cancer] |
| REPRODUCTIVE | Korea - GHS | Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child] |
| REPRODUCTIVE | New Zealand - GHS | 6.8A - Known or presumed human reproductive or developmental toxicants |
| REPRODUCTIVE | Japan - GHS | Toxic to reproduction - Category 1A |
| GENE MUTATION | MAK | Germ Cell Mutagen 3a |
| REPRODUCTIVE | EU - Annex VI CMRs | Reproductive Toxicity - Category 1A |
| DEVELOPMENTAL | Australia - GHS | H360Df - May damage the unborn child. Suspected of damaging fertility |

SUBSTANCE NOTES: Percentages by weight are based on the Pharos database for common ingredients "Crumb Rubber (from tire scrap). The actual material may differ due to the fact that this is 100% post consumer recycled tires therefore the exact mix of tire brands and their subsequent exact chemistry is unknown.

BINDER T-424

%: 5.0000 - 5.0000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were screened using the toxnet database. The actual raw materials were not tested therefore the actual product may or may not contain those substances.

OTHER MATERIAL NOTES:

BENZENE, 1-ISOCYANATO-2-[[4-ISOCYANATOPHENYL]METHYL]-

ID: 5873-54-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **10.0000 - 25.0000**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

SUBSTANCE NOTES:

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

#: **10.0000 - 20.0000**

GS: **LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (G) - generally accepted |
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| RESPIRATORY | MAK | Sensitizing Substance Sah - Danger of airway & skin sensitization |

SUBSTANCE NOTES:

BENZENE, 1,1'-METHYLENEBIS[2-ISOCYANATO-

ID: 2536-05-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-06-20**

HAZARD SCREENING RANGE: **%: 0.0000 - 2.0000**

AGENCY AND LIST TITLES: **GS: LT-UNK**

RC: **PreC**

NANO: **No**

SUBSTANCE ROLE: **Polymer species**

SC:BIG:NATURALRUBBER

HAZARD SCREENING RANGE: **%: 0.0000 - 30.0000**

WARNINGS

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-----------------|------------------------------------|--|
| RESTRICTED LIST | US EPA - PPT Chemical Action Plans | EPA Chemical of Concern - Action Plan published |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| SKIN SENSITIZE | EU - GHS (H-Statements) | H317 - May cause an allergic skin reaction |
| RESPIRATORY | EU - GHS (H-Statements) | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| CANCER | EU - GHS (H-Statements) | H351 - Suspected of causing cancer |
| RESPIRATORY | US EPA - PPT Chemical Action Plans | Inhalation sensitizer causing asthma and lung damage |

PRODUCT THRESHOLD: **100 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: **"Derivation: From latex obtained from Hevea trees, coagulated with acetic or formic acid. Also made synthetically. [Lewis, R.J. Sr (Ed). Hawley's Condensed Chemical Dictionary, 13th ed. New York, NY: John Wiley & Sons, Inc. 1997., p. 976]" (HSDB) "Latex is the material exuded by a rubber tree. Once it has been collected in a cup or other container, it is called field latex. It continues to be referred to as field latex until it reaches a factory for processing." (FAO, Processing of Natural Rubber <http://ecoport.org/ep?SearchType=articleView&articleId=644&page=2>)**

OTHER MATERIAL NOTES: **SpecialConditionApplied:BiologicalMaterial --- This is from the rubber tree. Natural latex is part of both the pre and post-consumer recycled content in this product. It is broken into its own line item to comply with HPD requirements**

SUBSTANCE NOTES:

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-06-20**%: **1.0000 - 49.9990**GS: **Not Screened**RC: **UNK**NANO: **Unknown**SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:

Version: **SCBioMats/2018-02-23**Category: **Tree-based materials**Identifier: **9006-004-6**

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

"Derivation: From latex obtained from Hevea trees, coagulated with acetic or formic acid. Also made synthetically. [Lewis, R.J., Sr (Ed.). Hawley's Condensed Chemical Dictionary. 13th ed. New York, NY: John Wiley & Sons, Inc. 1997., p. 976]" (HSDB)

"Latex is the material exuded by a rubber tree. Once it has been collected in a cup or other container, it is called field latex. It continues to be referred to as field latex until it reaches a factory for processing." (FAO, Processing of Natural Rubber <http://ecoport.org/ep?SearchType=earticleView&earticleId=644&page=-2>)

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **U.S. Rubber**

APPLICABLE FACILITIES: **This is not a facility-specific certification.**

06-20

Recycling

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Conducted in general accordance with the emission testing guidelines specified under ASTM D 5116-10. Specific testing parameters and VOC emission limits were based on the California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Test Chambers Version 1.1 (Section 01350). Results: Predicted airborne concentrations of acetaldehyde and phenol, as well as all other CDPH compounds, in both a classroom and private office environment, are compliant with the specified California Office of Environmental Health Hazard Assessment (OEHHA) 1/2 CREL limit. This is equal to the v1.2 less than .05 mg/m3.**

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Residuals and impurities were screened using the toxnet database. This database is based on scientific findings and peer-reviewed journal articles. Since the actual raw material used is not tested the actual residuals and impurities are unknown and therefore the reported impurities contained in this HPD may or may not be in the actual product.

MANUFACTURER INFORMATION

MANUFACTURER: **US Rubber**
ADDRESS: **1231 South Lincoln Street**
Colton California 92324, USA
WEBSITE: **www.usrubber.com**

CONTACT NAME: **Jeff Baldassari**
TITLE: **General Manager**
PHONE: **1-833-877-8223**
EMAIL: **info@usrubber.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

| | | |
|---------------------------------------|---|--|
| AQU Aquatic toxicity | LAN Land toxicity | PHY Physical hazard (flammable or reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive |
| DEV Developmental toxicity | MUL Multiple | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | NF Not found on Priority Hazard Lists | UNK Unknown |
| GEN Gene mutation | OZO Ozone depletion | |
| GLO Global warming | PBT Persistent, bioaccumulative, and toxic | |

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-1 List Translator 1 (Likely Benchmark-1) |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | NoGS No GreenScreen. |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | |
| BM-U Benchmark Unspecified (due to insufficient data) | |
| LT-P1 List Translator Possible 1 (Possible Benchmark-1) | |

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,*
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.